



SLOVENSKI STANDARD SIST EN ISO 9241-960:2018

01-februar-2018

Ergonomija medsebojnega vpliva človek-sistem - 960. del: Okvir in navodila za interakcijo kretenj (ISO 9241-960:2017)

Ergonomics of human-system interaction - Part 960: Framework and guidance for gesture interactions (ISO 9241-960:2017)

Ergonomie der Mensch-System-Interaktion - Teil 960: Rahmen und Anleitung zur Gestensteuerung (ISO 9241-960:2017)

Ergonomie de l'interaction homme-système - Partie 960: Cadre et lignes directrices relatives aux interactions gestuelles (ISO 9241-960:2017)

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Ta slovenski standard je istoveten z: EN ISO 9241-960:2017

ICS:

13.180	Ergonomija	Ergonomics
35.180	Terminalska in druga periferna oprema IT	IT Terminal and other peripheral equipment

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en,fr,de

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EUROPEAN STANDARD

EN ISO 9241-960

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 2017

ICS 13.180; 35.180

English Version

Ergonomics of human-system interaction - Part 960: Framework and guidance for gesture interactions (ISO 9241-960:2017)

Ergonomie de l'interaction homme-système - Partie
960: Cadre et lignes directrices relatives aux
interactions gestuelles (ISO 9241-960:2017)

Ergonomie der Mensch-System-Interaktion - Teil 960:
Rahmen und Anleitung zur Gestensteuerung (ISO
9241-960:2017)

This European Standard was approved by CEN on 6 July 2017.

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European foreword

This document (EN ISO 9241-960:2017) has been prepared by Technical Committee ISO/TC 159 “Ergonomics” in collaboration with Technical Committee CEN/TC 122 “Ergonomics” the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by April 2018, and conflicting national standards shall be withdrawn at the latest by April 2018.

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The text of ISO 9241-960:2017 has been approved by CEN as EN ISO 9241-960:2017 without any modification.

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INTERNATIONAL
STANDARD

ISO
9241-960

First edition
2017-09

**Ergonomics of human-system
interaction —**

**Part 960:
Framework and guidance for gesture
interactions**

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Ergonomie de l'interaction homme-système —

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*Partie 960: Cadre et lignes directrices relatives aux interactions
gestuelles*

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Reference number
ISO 9241-960:2017(E)

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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This document was prepared by Technical Committee ISO/TC 159, *Ergonomics*, Subcommittee SC 4, *Ergonomics of human-system interaction*.

A list of all parts in the ISO 9241 series can be found on the ISO website.

ISO 9241-960:2017(E)

Introduction

Tactile and haptic interactions are becoming increasingly important as candidate interaction modalities in computer systems such as special purpose computing environments (e.g. tablets), wearable technology (e.g. tactile arrays, instrumented gloves), and assistive technologies.

Tactile and haptic devices are being developed in university and industrial laboratories in many countries. Both the developer and the prospective purchaser of such devices need a means of making comparisons between competing devices and common design of interactions.

This document focuses on gestures and identification of gesture sets as a specific type of tactile/haptic interaction. It explains how to describe their features, and what factors to take into account when defining gestures.

ISO 9241-910 provides a common set of terms, definitions and descriptions of the various concepts central to designing and using tactile/haptic interactions. It also provides an overview of the range of tactile/haptic applications, objects, attributes, and interactions.

ISO 9241-920 provides basic guidance (including references to related standards) in the design of tactile/haptic interactions.

ISO 9241-940 (under preparation) is to provide ways of evaluating tactile/haptic interactions for various aspects of interaction quality (such as haptic device attributes, logical space design and usability).

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